

Product Data Sheet

Product Name: CMPD-1
Cat. No.: GC11180

Chemical Properties

Cas. No. 41179-33-3

Chemical Name 4-(2'-fluoro-[1,1'-biphenyl]-4-yl)-N-(4-hydroxyphenyl)butanamide

SMILES FC1=CC=CC=C1C2=CC=C(C=C2)CCCC(NC(C=C3)=CC=C3O)=O

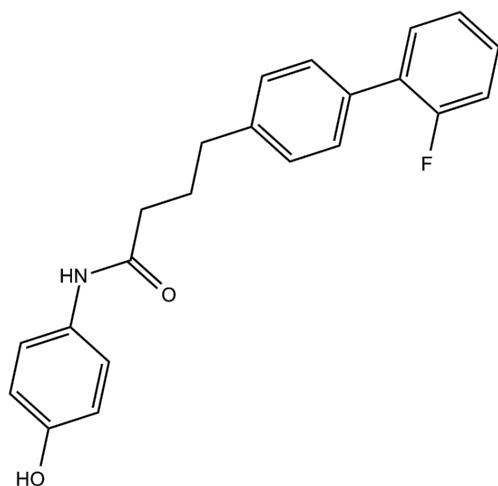
Formula $C_{22}H_{20}FNO_2$ M.Wt 349.4

Solubility <34.94mg/ml in DMSO; <34.94mg/ml in ethanol Storage Store at RT

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

CMPD1 is a selective and non-ATP-competitive p38 MAPK-mediated MK2 phosphorylation inhibitor with apparent K_i (K_{iapp}) of 330 nM[1][2].

CMPD1 does not inhibit p38 MAPK-mediated phosphorylation of other two substrates, MBP and

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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ATF2[1].CMPD1 induced mitotic arrest and apoptosis in U87 cells[1].CMPD1 inhibits tubulin polymerisation in glioblastoma cells[3].

References:

- [1]. Gurgis F, et al. Cytotoxic activity of the MK2 inhibitor CMPD1 in glioblastoma cells is independent of MK2. Cell Death Discov. 2015 Sep 7;1:15028.
- [2]. Davidson W, et al. Discovery and characterization of a substrate selective p38alpha inhibitor. Biochemistry. 2004 Sep 21;43(37):11658-71.
- [3]. Phoa AF, et al. Pharmacology of novel small-molecule tubulin inhibitors in glioblastoma cells with enhanced EGFR signalling. Biochem Pharmacol. 2015 Dec 15;98(4):587-601.

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